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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,049	09/21/2005	Rainer Hainberger	1826-1063	5515
21171 7590 12/10/2007 STAAS & HALSEY LLP SUITE 700			EXAMINER	
			HUGHES, DEANDRA M	
	1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER
,			3663	

			MAIL DATE	DELIVERY MODE
		•	12/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	Application No.	Applicant(s)			
	10/530,049	HAINBERGER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Deandra M. Hughes	3663			
The MAILING DATE of this communication					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	i DATE OF THIS COMMUNIC. It 1.136(a). In no event, however, may a replication will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 14	1 November 2007.				
2a) ☐ This action is FINAL . 2b) ☑ T	This action is FINAL . 2b) ☑ This action is non-final.				
3) Since this application is in condition for allo	•	•			
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-8,10-13 and 15</u> is/are pending in	the application.				
4a) Of the above claim(s) 1 and 10-12 is/are	withdrawn from consideration	1.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>2-8, 13, and 15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction an	d/or election requirement.				
Application Papers					
9) ☐ The specification is objected to by the Exam	iner.				
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to b	y the Examiner.			
Applicant may not request that any objection to	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the cor					
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:1. ☐ Certified copies of the priority docum	ents have been received				
2. Certified copies of the priority docum		uplication No			
3. Copies of the certified copies of the p	·	•			
application from the International Bur	-				
* See the attached detailed Office action for a	•	eceived.			
Attachment(s)	-	(070 446)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		ummary (PTO-413) /Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inf 6) Other:	formal Patent Application			

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DETAILED ACTION

Response to Amendment

1. The RCE filed 11/14/07 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 2-8, 13, and 15 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 2-8, 13, and 15 rejected under 35 U.S.C. 102(e) as being anticipated by Odate (US 6,844,961 filed Mar. 25, 2002).

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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With regard to claims 2, 5-6, 13, and 15, Odate discloses an amplification system (fig. 8) employing Raman amplification (col. 4, line 49) with a plurality of 1st order Raman pumps (#21-1) and at least one 2nd order Raman pump (#21-2) which amplifies the 1st order Raman pumps, the 1st and 2nd order Raman pumps counter-propagating (EXCITED LIGHT PULSE) to signal light in an optical fiber, the amplification system comprising:

- a plurality of light sources generating pump light of the 1st and 2nd order pumps (#21-1 to 21-N);
- a modulator unit (fig. 9, #21c) modulating the pump light of the 1st and 2nd order pumps by using a 1st timing for the pump light of the 1st order pumps (col. 7, lines 5-10) and a 2nd timing relatively different from the 1st timing for pump light of the at least one 2nd order pump (timing is set so that the excitation pulses do not overlap) to allow flattening lateral signal power distribution along the fiber.

With regard to claim 3, the 3rd order pumps are #43-n.

With regard to claim 4, fig. 10 discloses co-propagation.

With regard to claim 8, the clock supply unit #21a is electronic.

With regard to claim 9, #21c is optical.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deandra M. Hughes whose telephone number is 571-272-6982. The examiner can normally be reached on M-F, 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Deandra M Hughes Primary Examiner Art Unit 3663